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(54) Title: SPLICE VARIANT OF HUMAN SODIUM III CHANNEL (hNaIII18)

(57) Abstract: Described herein is a splice variant of the human NaIII channel  $\alpha$  subunit, designated hNaIII18. Also described are nucleotide and amino acid sequence for hNaIII18, oligonucleotide primers and probes for hNaIII18, hNaIII18 regulatory sequences, hNaIII18-specific antibodies, methods of detecting hNaIII18 proteins or nucleic acids, and methods of screening for modulators of hNaIII18 expression or activity.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38796

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12 Q 1/68

US CL : 435/6, 320.1, 325, 455, 91.41; 536/23.1, 23.2, 23.5, 24.3, 24.31

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 320.1, 325, 455, 91.41; 536/23.1, 23.2, 23.5, 24.3, 24.31

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y          | US 6,110,672 A (MANDEL et al.) 29 August 2000 (29.08.2000), especially Examples.   | 1-21                  |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

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"T"

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document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

26 November 2004 (26.11.2004)

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/38796

**Continuation of B. FIELDS SEARCHED Item 3:  
WEST AND MEDLINE.**

search terms: nucleotide, polypeptide, sodium channel, human.